PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORTON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference R-35	FOR FURTHER ACT	ION	See Form PCT/IPEA/416			
International application No.	International filing date (a	lay/month/year)	Priority date (day/month	/year)		
PCT/JP03 /16921	26.12	.2003	27.12.	2002		
International Patent Classification (IPC) Int.Cl 7 C22F 1/04, F281		nd IPC				
Applicant SHOWA DENKO	K.K.					
1. This report is the international s	1. This report is the international preliminary examination report, established by this International Preliminary Examining					
Authority under Article 35 and to				inary Examining		
2. This REPORT consists of a total						
3. This report is also accompanied l	3. This report is also accompanied by ANNEXES, comprising:					
a. a total of sheets, as follows:						
	ontaining rectifications au		een amended and are the bority (see Rule 70.16 and S			
	closure in the international		y considers contain an ame as indicated in item 4 of Bo			
containing a sequence		ted thereto, in compu	nter readable form only, as the Administrative Instruct			
4. This report contains indications r	elating to the following ite	ems:				
Box No. I Basis of th	e report					
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain del	rtain defects in the international application					
Box No. VIII Certain obs	servations on the internation	onal application				
Date of submission of the demand		Date of completion	of this report			
31.05.200)4		25.11.2004			
Name and mailing address of the IPEA/JI	•	Authorized officer		4K 9269		
Japan Patent Off	iice	TAKESHI	INOUE			
3-4-3, Kasumigaseki, Chiyoda-ku, To	okyo 100-8915, Japan	Telephone No. +81	-3-3581-1101 Ext.	3435		

Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP03

/16921

Box No. I	Basis of the report	
1. With rea	gard to the language, this report is based on the int	ernational application in the language in which it was filed, unless
	ise indicated under this item.	and the same of th
	This report is based on translations from the origina which is the language of a translation furnished for	· · · · · ·
Г	international search (under Rules 12.3 and 23.1)	
· [publication of the international application (und	
Ī	international preliminary examination (under Ru	ales 55.2 and/or 55.3)
_		
		on, this report is based on (replacement sheets which have been
		under Article 14 are referred to in this report as "originally filed"
and are	not annexed to this report):	
✓ ti	the international application as originally filed/furn	ished
tl	the description:	·
_	pages	as originally filed/furnished
		received by this Authority on
		received by this Authority on
. 🗀 🚜	the claims:	
	pages	as originally filed/furnished
		as amended (together with any statement) under Article 19
_		received by this Authority on
р		received by this Authority on
₊₁	the drawings:	
	pages	as originally filed/furnished
-		received by this Authority on
_		received by this Authority on
		
a	a sequence listing and/or any related table(s) - see S	upplemental Box Relating to Sequence Listing.
		•
3. T	The amendments have resulted in the cancellation o	
	the description, pages	
	the claims, Nos.	
	the drawings, sheets/figs	
	the sequence listing (specify):	
	any table(s) related to sequence listing (specify)):
m	•	amendments annexed to this report and listed below had not been nd the disclosure as filed, as indicated in the Supplemental Box
Г	the description, pages	
F	the claims, Nos.	
<u></u>	the drawings, sheets/figs	
L		
L	the sequence listing (specify):	
L	any table(s) related to sequence listing (specify)	
* If item 4 a	applies, some or all of those sheets may be marked "si	uperseded."

International application No. PCT/JP03 / 16921

. Statement	•		
Novelty (N)	Claims	1-14	YES
	Claims		NO
Inventive step (IS)	Claims	5-14	YES
	Claims	1-4	NO
Industrial applicability (IA)	Claims	1-14	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

The following documents have been considered for the purpose of this report. D1:JP 2000-119784 A(SUMITOMO LIGHT METAL IND., CO.)2000.04.25 D2:JP 2002-348624 A(SUMITOMO LIGHT METAL IND., CO.)2002.12.04 D3:JP 11-172387 A(FURUKAWA ELECTRIC CO., LTD.)1999.06.29 D4:US 2001/0025676 A1(Kazuo TAGUCHI)2001.10.04 D5:JP 11-172388 A(FURUKAWA ELECTRIC CO., LTD.)1999.06.29 D6:Japan Light Metal Association, Handbook of Aluminum(5th ed.).1994, page 11,25,31,273-275 D7:JP 2001-342532 A(FURUKAWA ELECTRIC CO., LTD.)2001.12.14

The subject matter of claim1 does not appear to involve an inventive step in view of the D1 cited in the ISR.

The technical feature having an electrical conductivity of 30 to 43% IACS is not disclosed in D1. However, the person skilled in the art would easily establish the above feature by controlling amounts of solid solutions of Mn.

The subject matters of claim2-4 do not appear to involve an inventive step in view of the D1 cited in the ISR.

The amounts of inpurities in the claims2-4 is not special as inevitable impurites of the alloy.

The subject matters of claims5-10 are novel, since they are not disclosed in any of the prior art documents cited in the ISR.

In particular, the subject matter of the pipe blank heated at 550 to 600 degrees and thereafter cooled is not disclosed.

The subject matters of claims11-14 are novel, since they are not disclosed in any of the prior art documents cited in the ISR.

In particular, the use of the aluminum pipe claimed1-4 for an inlet pipe or an outlet pipe of a heat exchanger is not disclosed.